

Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1-20. (Canceled)

21. (Currently Amended) A personal computer comprising:

a semiconductor film provided over a substrate and comprising a source region, a drain region and a channel formation region provided between said source region and said drain region; and

a gate electrode provided adjacent to said channel formation region with a gate insulating film therebetween,

wherein said semiconductor film comprises a first crystal region, a second crystal region and a grain boundary located between the first crystal region and the second crystal region,

wherein a first lattice image corresponding to the first crystal region has a first direction different from a second direction of a second lattice image corresponding to the second crystal region, and

wherein lattices are continuously connected to each other at [a] said grain boundary of said semiconductor film.

22. (Previously Presented) A computer according to claim 21 further comprising an auxiliary capacitance.

23. (Previously Presented) A computer according to claim 21 further comprising:

a pixel electrode;

an opposite electrode; and

a liquid crystal provided between said pixel electrode and said opposite electrode.

24. (Canceled)

25. (Previously Presented) A computer according to claim 21 wherein channel length of said channel formation region is 2 μm or shorter.

26-41. (Canceled)

42. (Previously Presented) A computer according to claim 21 wherein direction of movement of a carrier in said channel formation region coincides with direction of extension of said grain boundary.

43. (Previously Presented) A computer according to claim 21 wherein the semiconductor film comprises silicon.

44. (Previously Presented) A computer according to claim 21 wherein the semiconductor film comprises a rod-shaped crystal.

45. (Previously Presented) A computer according to claim 21 wherein the semiconductor film comprises a flattened rod-shaped crystal.

46. (Previously Presented) A computer according to claim 23 wherein the pixel electrode comprises ITO.

47. (Currently Amended) A personal computer comprising:

a semiconductor film provided over a substrate and comprising a source region, a drain region and a channel formation region provided between said source region and said drain region; and

a gate electrode provided adjacent to said channel formation region with a gate insulating film therebetween, and

a thermal oxidation film provided between the semiconductor film and the gate electrode, wherein said semiconductor film comprises a first crystal region, a second crystal region and a grain boundary located between the first crystal region and the second crystal region,

wherein a first lattice image corresponding to the first crystal region has a first direction different from a second direction of a second lattice image corresponding to the second crystal region, and

wherein lattices are continuously connected to each other at [[a]] said grain boundary of said semiconductor film.

48. (Previously Presented) A computer according to claim 47 further comprising an auxiliary capacitance.

49. (Previously Presented) A computer according to claim 47 further comprising:

a pixel electrode;

an opposite electrode; and

a liquid crystal provided between said pixel electrode and said opposite electrode.

50. (Previously Presented) A computer according to claim 47 wherein channel length of said channel formation region is 2 μm or shorter.

51. (Previously Presented) A computer according to claim 47 wherein direction of movement of a carrier in said channel formation region coincides with direction of extension of said grain boundary.

52. (Previously Presented) A computer according to claim 47 wherein the semiconductor film comprises silicon.

53. (Previously Presented) A computer according to claim 47 wherein the semiconductor film comprises a rod-shaped crystal.

54. (Previously Presented) A computer according to claim 47 wherein the semiconductor film comprises a flattened rod-shaped crystal.

55. (Previously Presented) A computer according to claim 49 wherein the pixel electrode comprises ITO.

56. (Currently Amended) A personal computer comprising:

a semiconductor film provided over a substrate and comprising a source region, a drain region, a channel formation region provided between said source region and said drain region, and a low concentration impurity region provided between the channel formation region and at least one of the source region and the drain region; and

a gate electrode provided adjacent to said channel formation region with a gate insulating film therebetween,

wherein said semiconductor film comprises a first crystal region, a second crystal region and a grain boundary located between the first crystal region and the second crystal region,

wherein a first lattice image corresponding to the first crystal region has a first direction different from a second direction of a second lattice image corresponding to the second crystal region, and

wherein lattices are continuously connected to each other at [a] said grain boundary of said semiconductor film.

57. (Previously Presented) A computer according to claim 56 further comprising an auxiliary capacitance.

58. (Previously Presented) A computer according to claim 56 further comprising:
a pixel electrode;
an opposite electrode; and
a liquid crystal provided between said pixel electrode and said opposite electrode.

59. (Previously Presented) A computer according to claim 56 wherein channel length of said channel formation region is 2 μm or shorter.

60. (Previously Presented) A computer according to claim 56 wherein direction of movement of a carrier in said channel formation region coincides with direction of extension of said grain boundary.

61. (Previously Presented) A computer according to claim 56 wherein the semiconductor film comprises silicon.

62. (Previously Presented) A computer according to claim 56 wherein the semiconductor film comprises a rod-shaped crystal.

63. (Previously Presented) A computer according to claim 56 wherein the semiconductor film comprises a flattened rod-shaped crystal.

64. (Previously Presented) A computer according to claim 58 wherein the pixel electrode comprises ITO.

65. (New) A personal computer according to claim 21 wherein said lattices are continuously connected to each other at said grain boundary of said semiconductor film according to high resolution TEM.

66. (New) A personal computer according to claim 47 wherein said lattices are continuously connected to each other at said grain boundary of said semiconductor film according to high resolution TEM.

67. (New) A personal computer according to claim 56 wherein said lattices are continuously connected to each other at said grain boundary of said semiconductor film according to high resolution TEM.

68. (New) A personal computer according to claim 21 wherein said substrate comprises a silicon wafer.

69. (New) A personal computer according to claim 47 wherein said substrate comprises a silicon wafer.

70. (New) A personal computer according to claim 56 wherein said substrate comprises a silicon wafer.